	1	Rece	eiving F	Report			
	Pate: 14/3/19 Supplier: 14/50	rech		Batch No: Dart P/O:	23	8507 3230 No	N/A
Packing Slip: Invoice: Receipt: New Supplier			Waybill At	Complete: pection	Yes	No No	
Discrepancie		Quantity	Quantity	Quantity	Quantity	Quantity Rejected	Comment / NCR Number
Part Number	Description	Ordered	Rec'd	Short	Inspected	Rejected	Number.
				Initials of	Receiver	QC12	
Production/A Date Received/Co Initial	19/3/2019		÷.			Locatio	on

H:\FORMS\Purchasing\approved purch\RECREPORT Rev F

Friday, March 14, 2014 10:40:59 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO23230 Receipt Dates from 3/14/2014 to 3/14/2014 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies

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							CAD	VendorID\Vendor Name PO23230 6	Purchase Order ID/ Curr Type
	No	9	No	∞	N <sub>o</sub>	7	No	ndor Nar	Line Nbr/ Insp Req
M128502	250 7075-T6 BAR 1.750" f X 2.250"	M128502 M7075T6B1.750X02-1	7075-T6 BAR 5.000" f	M128502 M7075T6B5,000X0.3 f	7075-T6 BAR 6.000" f X 0.250"	M128 <del>5</del> 02 M7075T6B6.000X0.2 f	7075-T6 BAR 0.375" £ X 8.000"	VC-COP001 M7075T6B0	Project ID Reference/ Description/ Cert Std
	50" f	X02-P	00" f	(0.3 ¥	00" f	(0.2 f	75" f	Thyssenkrupp Materials CA Ltd	PO U/M / Ro Stock U/M F
	12.0000	3/13/2014	96.0000	3/13/2014	24.0000	3/13/2014	24.0000	3/13/2014 3/14/2014	Required Date Required Qty
	DESJ02	3/13/2014 3/14/2014	DESJ02	3/13/2014 3/14/2014	DESJ02	3/14/2014	DESJ02	3/14/2014	Recv Date/ Recv Emp
		(2.0000		96.0000		24.0000		24.0000	Recv Oty (PO U/M)
Tota	\$275.41	\$22.95	\$989.69	\$10.31	\$243.81	\$10.16	\$388.29	\$16.18	Cost Per Unit/ Recv Value
Total Received Quantity: Total Qty to Inspect (PO U/M): Total Reject Quantity: Total Receipt Value: Total Balance Due Quantity:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	Inspected Qty/ Rejected Qty (PO U/M)
Quantity: PO U/M): Quantity: pt Value: Quantity:	0	0	0	0	0	0	0	0	MRB Qty/ MRB Reject Qty
156.0000 0.0000 0.0000 \$1,897.20 0.0000		\$275.41		\$989.69		\$243.81		\$388.29	Book Amt

Ship From: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1) DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

BILL OF LADING No: PEC 867129 Ship Date 11Mar14 at 16:29 From PFW Probill VIM TRANSFER Via CONCORD FOB Frt PREPAID Route 0- 0 Manifest Trailer Vhcle Slp STAN IVERS (905-532-1350) Sold To: (20115) DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7

BILL OF LADING 1) Our Order PEC-658896- 1 Your PO # 23230 Part # QQ-A-250/12 PLATE Rel # Rel # ALUMINUM PLATE 7075-T651 375" THICK X 8.0000") X 144.5000" Quantity Wt LBS Heat Number Tag No R12372 270440 16.06 SFT 2) Our Order PEC-658896- 2 Your PO # 23230 ALUMINUM PLATE 7075-T651 .250" THICK X 6.0000" X 144.5000" K 6.0000" X 144.5000"

Heat Number Tag No

R13495 270441 PCS Quantity Quantity 12.04 SFT 3) Our Order PEC-658896- 3 Your PO # 23230 Part # QQ-A-250/12 PLATE ALUMINUM PLATE 7075-T651 .375" THICK X 5.0000" X 144 5000" Rel # Quantity PCS 40.14 SFT 8 Heat Number Tag No R07387) 270443 R07387 . \_ \_ \_ \_ \_ \_ - - - - -4) Our Order PEC-658896- 4 Your PO # 23230 Part # QQ-A-250/12 PLATE Rel # ALUMINUM PLATE 7075-T651 1.750" THICK X 2.2500" X 144.5000" Rel # Quantity Heat Number Tag No 2.26 SFT 270444 146341 \_ \_ \_ \_ \_ \_ \_ \_ \_ TIBS PCS Tags 4 412 TOTAL: Page: 1 ....Continued TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF L Ship From: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ONTARIO L4K 5C6 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: ( 1) DART AEROSPACE

No: PEC 867129 OF LADING Ship Date 11Mar14 at 16:29 From PFW Probill VIM TRANSFER Via CONCORD FOB Frt PREPAID 0- 0 Manifest Route Trailer Vhcle STAN IVERS (905-532-1350) Slp Sold To: (20115) DART AEROSPACE

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*

\*\* REFERENCED ON IT \*\*

TOTAL 1 TUBE, 3 BDLS GW. 493 LBS

Page: 2 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE

Constellium Valais SA

**Aerospace and Transportation** Europe - AT Valais, Usines de Sierre et Steg



CH-3960 Sierre Suisse

Tel: +41(0) 27 457 51 11

http://www.constellium.com

INSPECTION CERTIFICATE

10/07/2013

**According To** Disp. Advice / Cert EN 10204-3.1 0080237066 Page 1

Your Order

5400179908

Date

Copper

Project

Dated

01/05/2013

Our Confirmation No.

143280-50

Customer No.

606281

Sales Contact

Fabienne Salamin ++41 (27) 457 6432

14/03/21

Certificate Dpt:

41 27 457 66 92

Aluminium plates in AA7075-T651, mill finish, Alumitex paper interleaved To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002

Your article :

012-000501

CONSTELLIUM ROLLED PRODUCTS

RAVENSWOOD

RAVENSWOOD, LLC

Production No. Lot R12372 6241623

US -26164

Weight 3117.28 Lbs Quantity 9

Dimensions 0.375" x 60.50" x 144.50"

### Mechanical and technological properties

									 ,
Sample	Temper	Ksi-UTS	Ksi-YS	A%2Inch	HB				
min-max	T651)	>=78	>=67	>=9					-
min-max		Art of the state o							l

### Measured values

R12372-1 T651 R12372-2 T651	86.0	75.5 75.5	14 14	174 176			Pridiciple Announce and the second
	A THE PROPERTY OF THE PROPERTY	de la constante de la constant			100 y 100 (10 (10 (10 (10 (10 (10 (10 (10 (10	Bild systematics and a	(Freezy) contains a second
	manifest (s) to signife to each			WANTED TO THE TOTAL THE TOTAL TO THE TOTAL T			SEFFER A A MINN NA MANAGA

### Chemical composition

### Required composition (% by weight)

Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti		
Min			1.2		2.1	.18		5.1		ACCOUNT OF THE PERSON OF THE P	THE CONTRACTOR OF THE CONTRACT
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20	district	

Analysis results (% by weight)

Other elements: Each <= 0.05% Total <= 0.15%

2.44 31374812 0.06 1.47 .028 0.19 .0037 5.63 .022 0.17

This certificate of conformance verifies that the organization took effective control of quality to meet the specified requirements on both the sales order(s) and the customer purchase order(s)

\* \* \* COUNTRY OF ORIGIN AND MANUFACTURE : SWITZERLAND \* \* \* Compliant to the European Union Directive 2011/65/EU also known as RoHS

Alain Thurre

Inspection Department

Système de Management certifié ISO 9001 / ISO 14001 / OHSAS 18001

Valid without signature 03

MATERIAL:	707572 375X	$\underline{\mathbb{S}}_{\mathcal{O}}$
RECEIVED BY:	Line	
DATE:	14/03/14	INSTRUCTIONS FOR INSPECTING BAP
<u>P/O#</u>	23,230	MATERIAL CERT RECEIVED
QUANTITY ORDERED:	24	QUANTITY RECEIVED: 54
THICKNESS ORDERED:	.375X8.D	THICKNESS RECEIVED: 375×8.0
SHEET SIZE:	me Gagnagi	SHEET SIZE RECEIVED:

DESCRIPTION	NC (Ch Y/	eck	COMMENTS
SURFACE DAMAGE	Υ		
INCORRECT FINISH	Υ		RESTRICTED AND ARREST THAT ARE ARREST THAT
CORROSION	Υ	(N)	
INCORRECT GRAIN DIRECTION	Υ	1)	ONEMAGO DE PRESENTA DO PRESENTA DE PRESENT
INCORRECT MATERIAL	Υ	N	RESTAR SOLICIES OF SUBBLIGHTERS IN TOTAL TOTAL COLOR OF STATES
INCORRECT THICKNESS	Υ	N	то развивам узнатиратратравивам этактого имен. С
PHOTO REQUIRED	Υ	N	ROBERTS STAUM OF BOYAM STORD MACROSA TAUS STAUS
CORRECT MATERIAL	8	N	MUNICIPAL CONTRACT OF THE CONTRACT CONTRACT
CORRECT REF # TO LINK CERT	M	N	23230 mg garage 23230 mg garage garage garage and a survey of
CORRECT MATERIAL IDENTFICATION		N	R12372
CORRECT M# ON THE MATERIAL	N)	N	M 128502
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	M	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	A	

CUT SAMPLE PIECE OF MA	TERIAL AND P		HARDNESS C	CHECK.	1
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	-8
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	ONE THE CONTRACTOR	CINOS ANTIAS	THE COUNTY	TO SERVE S	

testers located in the Quality Office

QC 18 INSPECTION	AND SERVICE TO SERVICE	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	and	BY:
DATE:	14/12/21	OFFICE OF SEASON SHOULD DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Constellium Valais SA

**Aerospace and Transportation** Europe - AT Valais, Usines de Sierre et Steg Constellium

CH-3960 Sierre Suisse

Tel: +41(0) 27 457 51 11

http://www.constellium.com

INSPECTION CERTIFICATE

According To Disp. Advice / Cert EN 10204-3.1 0080237066

Date

10/07/2013 Page 1

Your Order

5400179908 Copper

Project

Dated

01/05/2013

Our Confirmation No.

143280-60 606281

Customer No.

Sales Contact

Fabienne Salamin ++41 (27) 457 6432

and 14/03/21

Certificate Dpt:

41 27 457 66 92

Aluminium plates in AA7075-T651, mill finish, To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002 Alumitex paper interleaved

Your article :

012-000503

CONSTELLIUM ROLLED PRODUCTS

RAVENSWOOD

Production No. Lot R13495 6241629

RAVENSWOOD, LLC

US -26164

Weight Quantity 8434.74 Lbs

Dimensions 0.250" x 60.50" x 144.50"

### Mechanical and technological properties

			-				 		Prince Library Control	
Sample	Temper	Ksi-UTS	Ksi-YS	A%2Inch	нв					
min-max	(651)	>=78	>=67	>=9						
min-max	_			and the second						ľ

#### Measured values

R13495-1 R13495-2	7651 T651	82.2 81.9	73.1 73.1	12 13	176 177		ATT ADDS - SEE A	4.00	
			WATER THE PROPERTY OF THE PROP						
Advances and a supply of the s	e e e e e e e e e e e e e e e e e e e	A YYYOLU MARKA	McDiscord Arms and an arms and an arms		A the commence of the commence				

### Chemical composition

### Required composition (% by weight)

Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	
Min			1.2		2.1	.18		5.1		
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20	

Other elements: Each <= 0.05% Total <= 0.15% Analysis results (% by weight) 31476332 0.06 0.17 1.52 .049 2.46 0.19 .0045 5.64

This certificate of conformance verifies that the organization took effective control of quality to meet the specified requirements on both the sales order(s) and the customer purchase order(s)

\*\*\* COUNTRY OF ORIGIN AND MANUFACTURE: SWITZERLAND \*\*\* Compliant to the European Union Directive 2011/65/EU also known as RoHS

Alain Thurre

Inspection Department

Système de Management certifiè

ISO 9001 / ISO 14001 / OHSAS 18001

Valid without signature 03

MATERIAL:	7075Tle CO.DXIX	25
RECEIVED BY:	Ling	
DATE:	19/03/14	
P/O#	23230	MATERIAL CERT RECEIVED YES
QUANTITY ORDERED:	24	QUANTITY RECEIVED: 24
THICKNESS ORDERED:	6.0 x .250	THICKNESS RECEIVED: 60 X 25
SHEET SIZE:	La Padro Patriot Ser Set Service	SHEET SIZE RECEIVED:
	and the second s	

DESCRIPTION		CR eck N)	COMMENTS
SURFACE DAMAGE	Υ		
INCORRECT FINISH	Υ	(1)	RAITONE ONTOREMI ROR EMONTOREMA
CORROSION	Υ	(A)	
INCORRECT GRAIN DIRECTION	Υ	1	SWINNERS DESIGNED TO SO AT MINOR IT
INCORRECT MATERIAL	Υ	N	O CALLOUS UNDOCCT SUTCHAL IN BURNIE TO EURIDE MATERIAL
INCORRECT THICKNESS	Υ	M	2. повые портупит народивае тратер устану шубрыева и
PHOTO REQUIRED	Y	N	A VEDEN THAT BUTTERIAL CERTS WATCH TO WHATS CALL ENGLY
CORRECT MATERIAL	8	N	MONTORGEM CROSES INFORTAL CRITER
CORRECT REF # TO LINK CERT	10	N	m.ma marina 23230 mana marina and a
CORRECT MATERIAL IDENTFICATION	N	N	R13495
CORRECT M# ON THE MATERIAL	N	N	M128502
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	M	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	8	

CUT SAMPLE PIECE OF MA	TERIAL AND P		HARDNESS C	CHECK.	-t
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	-6
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	CONTROL FOR		THE REAL OF THE PARTY	D. Statuter	

testers located in the Quality Office

	THOMETERING CICNOFF (if required)
QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
	BY:
INSPECTED BY:	
DATE: 14/03/21	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

#### Constellium Valais SA

**Aerospace and Transportation** Europe - AT Valais, Usines de Sierre et Steg

CH-3960 Sierre Suisse

Tel: +41(0) 27 457 51 11

http://www.constellium.com

INSPECTION CERTIFICATE

According To

EN 10204-3.1

Disp. Advice / Cert 06/05/2013 Date

0080233620 Page

Your Order

7075 + 6061

CONSTELLIUM ROLLED PRODUCTS RAVENSWOOD, LLC

US -26164

RAVENSWOOD

Project

Dated

11/07/2012

Our Confirmation No.

141654-14

Customer No.

606281

Sales Contact

Fabienne Salamin ++41 (27) 457 6432

Certificate Dpt:

41 27 457 66 92

Aluminium plates in AA7075-T651, mill finish, Alumitex paper interleaved To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002

Your article:

001-300725

Lot	Production No.	Weight	Quantity	ing ing ing ing the first and in the control of the
(R07387)	6239358	3015.87 Lbs	11	0.375" x 48.50" x 144.50"

# Mechanical and technological properties

Sample	Temper	Ksi-UTS	Ksi-YS	A%2Inch	НВ				
min-max	T651	>=78	>=67	>=9					
min-max									

### Measured values

R07387-1 T651 R07387-2 T651	86.9 86.9	78.7 78.9	13 11	174 176				

### Chemical composition

## Required composition (% by weight)

Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	
Min			1.2		2.1	.18		5.1		
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20	

Analysis results (% by weight)

Other elements: Each <= 0.05% Total <= 0.15%

0.02 0.18 0.006 5.73 0.038 2.51 1.56 0.16 30773291 0.06

### Remark

This certificate of conformance verifies that the organization took effective control of quality to meet the specified requirements on both the sales order(s) and the customer purchase order(s)

\* \* \* COUNTRY OF ORIGIN AND MANUFACTURE : SWITZERLAND \* \* \*

Compliant to the European Union Directive 2011/65/EU also known as RoHS

Alain Thurre

Inspection Department

Definition of abbreviations on demand

Valid without signature 03

From: ThyssenKrupp Materials NA

Système de Management certifié ISO 9001 / ISO 14001 / OHSAS 18001

MATERIAL: 707	57	6	5.0 X.	375				
RECEIVED BY:	Lin	0						
DATE: 14	1/0	3/	14					
P/O#	) 2	2	37)	MATERIA	AL CEF	RT RECEIVED	as a	1
	01					RECEIVED:	191	2
QUANTITY ORDERED:	76	, _	AGOLE US			RECEIVED:	ENI	374
THICKNESS ORDERED: 5.2	X	- 3	75	Pulled James	2.08	, 37		
SHEET SIZE:		.016	.daggonno	SHEET	SIZE	RECEIVED:	ICIMOD NEBRIN	
							NOW LOVERNOON	
	NO	CR						
DESCRIPTION		eck			CC	OMMENTS		
BEGGIII HON	,	N)						
SURFACE DAMAGE	100000000000000000000000000000000000000	(A)						
INCORRECT FINISH	Y	0		DE OM			EMOITOL	
CORROSION	Y	A						
INCORRECT GRAIN DIRECTION	Υ	N		8	ustwiae	a cauppus te	MO OT VALABL	
INCORRECT MATERIAL	Υ	M	METAM W	NETO ENSUR	MESTAN	CT MATERIAL I	REPORT FIGURES	- 20
INCORRECT THICKNESS	Υ	M	ROMESS OF	R VERIEV HAI	TESTE	SESMORAL SU	PATONE NUMBER	2
PHOTO REQUIRED	Y	(1)	U de Liao	OH TO WHAFE	TAM S	TREO LAIRETAL	ATABLE MARK	<u> </u>
CORRECT MATERIAL	(Y)	N		MOITO	20	20	ARTAM RE	
CORRECT REF # TO LINK CERT	N	N	BE THE JAH	1	32	30	MR TRACT RVAN	
CORRECT MATERIAL IDENTFICATION	10	N	21	A A	36	384	THAT TO A SHALL	
CORRECT M# ON THE MATERIAL	(V)	N		1910	20	500		
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	A						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	A						
IASSET	AN		IUT 220					
CUT SAMPLE PIECI	<u> </u>	- 840	TEDIAL AN	ID DDEEOE	DNA A L	HARDNESS C	HECK	
CUT SAMPLE PIECI	E OF	DEC	OBD BESI	JLTS BELO	W	IAI IDINEGO C	11201	
	700	ILU	HRC	HR		DUR A	DUR D	
TYPE OF MATERIAL			11110	DASIL NOROH	EEXT	IT HER BY JAIH		100
SIZE OF TEST SAMPLE							entropy of the control of the contro	
HARDNESS / DUROMETER REA	ADIN	G	0.00		THE REPORT	and the second s		
10000			located in t	he Quality Off	ice			
	na w		штрацавы					

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

DATE:

QC 18 INSPECTION

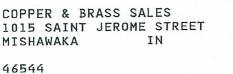
INSPECTED BY: DATE: 14/03/2)





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS
P.O. BOX 5116
SOUTHFIELD

ΜI

48086

72V				38338Y						
COPPER&BR	487603	4075 IN	CLUSION	SERIAL#:	2014021748	7603	PAGE 1	01	F 3	
CUSTOMER PURCHASE ORDE			Constellium ORD	ER NO.		CERTIFIC	CATION			
5400210509		- 110-	110-513	3705	"Constellium Rolled F	roducts, he	ereby certifies t	hat	metal	
ALLOY	. TEMPE	GAUGE	WIDTH	LENGIA	shipped under this ord	ler has bee	en inspected and	3 101	ing in	
7075 00	T651	1.78000	60.50	144.500	conformance with the specifications as indic	e requiren	THENIS OF THE	ie l	imited	
ITEM ORDERED					to that shown on Co	netellium F	Rolled Products	'sta	ndard	
MOLD PLATE-I	DIST GE				General Terms and C	onditions o	of Sales. Test re	epor	ts are	
SPEC PLATE,	SAWED	MILL			on file, subject to exam					
CUSTOMER SPECIFICATION					Constellium Ro	olled Produ	ucts Ravenswo	od,	LLC	
AMS-QQ-A-25	1/12					P.O. BO	X 68			
PART NUMBER		B/L NUMBER		DATE SHIPPED	RAVE	NSWOOD,	WV 26164 USA	k.		
ALFLR00996		4876	00	02/19/14	1	1	6			
	O. OF PIECES	GOVT. CONTRAC	T NO.			10 Cood 1 abo	oratory Manager			
4,860		3			Siev	E G000 - Labo	oratory manager			
4,0001										
		ULTIMATE STRENGTH K	(.S.).	YIELD STRENGTH K.S.	I. ELONGAT	ION %	COND	%	IAC	S
LOT TEST	NO. OF					MAY	MTN		MAY	

	TEAT	NO OF	ULTIMATE	STRENGTH K.S.I		YIELD	STRENG	TH K.S.I.		ELON	ATION 9	%	С	OND .		& IACS	
LOT NUMBER	TEST DIRECTION	NO. OF TESTS	MIN.	MAX.		MIN.		MAX.		MIN.		MAX.	M	IN	MAX		
146341	) LT	2	78.1	/	4	67.5		68.4	* * *	** 13.0		13.0					
All m	nateria	1 00	ntaine	in lo	t 14	6341	was	cast	and	l manu	fac	tured	i in	the	USA		
ALL L	.OTS 01	тнј	S CERT	IFICATI	ON A	LSO C	ONF	ORM TO	) TH	IE FOL	LOW	ING F	REQU	IREM	ENTS	;	
		AST	M B209	-10,AMS	404	5K	C	141	tos	3/2	7						
	SILICON		IRON	COPPER	MAR	NGANESE	MAG	NESIUM	СНВО	MIUM	ZIN			NIUM	OTH		
C ALLOY	-		IIN. MAX.	MIN. MAX	. MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MAX.	TOTAL MAX.	
C ALLOY H SEE AC			ICAL CO		ON												
M SEE AU	I OAL	CHIGH.															
c																	
C O M P																	
Inl	1					4111	LAILU ILA D	EMAINDER									

P-860-155D Revised: 02.2014

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403015389

CstAr CstOr 256413

Wgt.: 61 LB Date 03/07/2014

John L. Bubeth





## CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC



COPPER & BRASS SALES 1015 SAINT JEROME STREET MISHAWAKA IN

46544

1810 F 0

COPPER & BRASS P.O. BOX 5116 SOUTHFIELD

ΜI

48086

I* V				1000000				
COPPER&BR	487603	4075 I	NCLUSION	SERIAL#:	20140217487603	PAGE	2 OF	3
CUSTOMER PURCHASE ORD	ER NO. & ITEM		Constellium ORDE	R NO.	CERTIF	ICATION		
5400210509			110-513		"Constellium Rolled Products,	hereby certific	es that me	etal
ALLOY CLAI	D. TEMPER	GAUGE	WIDTH	LENGTH	shipped under this order has b	een inspected	and found	1 in
7075	0 T651	1.7800	60.500	144.500	conformance with the require specifications as indicated here	ements of the	e applica	.bie heti
ITEM ORDERED					to that shown on Constellium	Rolled Produ	cts' stand	ard
MOLD PLATE-	DIST GE				General Terms and Conditions	of Sales. Te	st reports	are
SPEC PLATE,	SAWED	MILL			on file, subject to examination.			
CUSTOMER SPECIFICATION					Constellium Rolled Pro	ducts Ravens	wood, LL	С
AMS-QQ-A-25	0/12				P.O. B	ury Road OX 68		
PART NUMBER		B/L NUMBER		DATE SHIPPED	RAVENSWOO	D, WV 26164 L	JSA	
ALFLR00996				2/19/14	17	12-		
WEIGHT SHIPPED	NO. OF PIECES	GOVT. CONTR	ACT NO.		Sieve Good - La	aboratory Manager	7	
4,860		3						

LOT	TEST	NO. OF	ULTIMATE	STRENGT	H K.S.I.		YIELD STI	RENGTH	ı K.S.I.		ELONG	ATION 9	%		OND :		
LOT NUMBER	TEST DIRECTION	TESTS	MIN.		MAX.		MIN.		MAX.		MIN.		MAX.	M	IN	MAX	
146341	CR=	0.21	FE ZN EACH:	= 0.1 = 5.!	52	CU=	= 1.4 = 0.0	1	MN= ZR=	0.	01	RE	= 2.5	ER		ОТН	
C ALLOY	SILICON		IRON	COPP		MANGA		MAGNI	MAX.	CHRON MIN.	1	ZIN MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOT.
SEE AC			ICAL CO	MPOS			MAX.	лич.	WAA.	WINE.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
C O M P							41111411	UNA DEL	MAINDER								

P-860-155D Revised: 02.2014

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403015389

CstAr Wgt.: 61 LB CstOr 256413

Date 03/07/2014

John ? Zumbeth





# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER 1015 SA MISHAWA

COPPER & BRASS SALES
1015 SAINT JEROME STREET
MISHAWAKA IN

46544

COPPER & BRASS
P.O. BOX 5116
SOUTHFIELD

ΜI

48086

I SARCY					100,000,000					_					
COPPER8	BR 4	487603	4075	INCLUS		IAL#:	2014021748	7603 PAG	SE 3	OF 3					
CUSTOMER PURCHASE ORDER NO. & ITEM Constellium ORDER NO.							CERTIFICATION								
5400210	1509				-513705		"Constellium Rolled Products, hereby certifies that metal								
ALLOY CLAD. TEMPER GAUGE					TH LENG	TH :	shipped under this order has been inspected and found in								
7075	075 00 7651 1.78000 60.500 144.50					.500	conformance with the requirements of the applicable								
TEM ORDERED	1013/							specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard							
MOLD PLATE-DIST GE							General Terms and Conditions of Sales. Test reports are								
		SAWED	MILL				on file, subject to examination."								
CUSTOMER SPECIFICATION							Constellium Rolled Products Ravenswood, LLC								
AMS-DO-	A-250	112					859 Century Road P.O. BOX 68								
AMS - QQ - A - 250/12 PART NUMBER   DATE SHIPPED						PPED	RAVENSWOOD, WV 26164 USA								
ALFLR00996 487600 02/						/14	11-61								
WEIGHT SHIPPED		OF PIECES	GOVT.	CONTRACT NO.			/5/	leve /	my						
	860		3				Ste	ve Good - Laboratory M	lanager						
4,	000		31												
		Г	III TIMATE STI	RENGTH K.S.I,	YIELD STRE	NGTH K.S.I.	ELONGA*	TION %	COND	% IACS					
LOT NUMBER	DIRECTION	NO. OF L	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX					
			wiid.	10.700											
TUTE	CEST DE	POPT	SHALL N	OT BE DE	PRODUCED	EXCE	PT IN FULL,	WITHOUT	THE W	RITTEN					

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE W	MAX
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE W	
APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIE THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.  CHEMISTRY BY DES: ARKSPARK	
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.	121
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.	
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; 3557.	
Mark Paperwork: ALFLR00999	
DUNS Number: 090570149; CAGE Code: 1YWL9	
Mercury is not a normal contaminant in aluminum alloys and neither mer nor any of its compounds were utilized in the manufacture of our produ	ct.
"END OF CERTIFICATION"	
SILICON IRON COPPER MANGANESE MAGNESIUM CHROMIUM ZINC TITANIUM	OTHERS
	EACH TOTA MAX. MAX.
C ALLOY MIN, MAX, MIN, MAX	
H MIN. MAX. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN	
HIN. MAX. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN	
H MIN. MAX. MIN.	

P-860-155D Revised: 02.2014

Wgt.: 61 LB

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2403015389

CstAr

CstOr 256413

Date 03/07/2014

John L. Zambeth

MATERIAL: 707576 175X225

RECEIVED BY:	in	0							
DATE: 14/	DE	3/14	ANIT_RAF						
P/O# 2	35	237		MATERIAL CE	RT RECEIVED	eff	1		
QUANTITY ORDERED:				QUANTITY	RECEIVED:	12			
	-V		DE CHEAR	THICKNESS	IS SUMMERS STANKED	1250	(2,2		
THICKNESS ORDERED: /. 75	, X	0	25 AS DIONE	LINES THE THE	entry operanding	1, (3)	100.00		
SHEET SIZE:		_ dia	99909800 .03	SHEET SIZE	RECEIVED:	GREEN VERSEN			
E.	MH O	21 00	SHERST SERVICE SERVICES	C) 1752 7 LIK MA 1.3 C F	10 (10 C) (10 C) (10 C) (10 C)				
	NO	CR							
DESCRIPTION		eck	COMMENTS						
	2012/01/01	N)							
SURFACE DAMAGE							ARREST INC.		
INCORRECT FINISH	Υ	W	BOUTODA	OMITOR	ROIL	ZHOMETE SE			
CORROSION	Υ								
INCORRECT GRAIN DIRECTION	Υ	D		AMMANAT	<u>in nationalis Te</u>	AND DESCRIPTION OF STREET			
INCORRECT MATERIAL	Υ	N	GENERAL REPORT	A OT A IGNUA D	IL JAMESTEAN TON	IGOWES ISSUED	_ X		
INCORRECT THICKNESS	Y	N	и арвилаан у	TIGAL CATORY	2011/10/01/11/E29	ATGING DIMES	.0		
PHOTO REQUIRED	Y	10	HORLIKO PTAH	SVIOT HOTAM R	PRED LAMBIETAN	TALE VIRGINIA			
CORRECT MATERIAL	(Y)	N			H SHERAU IA	PER SALESTA	T116		
CORRECT REF # TO LINK CERT	(8)	N	IN THE LABORTA	232	30	ELTRAG SVAN			
CORRECT MATERIAL IDENTFICATION		N	21971/4	146.	391	LEG TOUGHE	2		
CORRECT M# ON THE MATERIAL	X	N		1712	8502				
DOES THIS MATERIAL REQUIRE									
ENGINEERING SIGN OFF	Υ	W							
DOES THIS REQUIRE AN		A							
EXTRUSION REPORT	Υ	N							
CUT SAMPLE PIECI	- 01	- 1407	EDIAL AND E	DEEORM A I	HARDNESS C	HECK			
CUT SAMPLE PIECE	= 01	RECO	ORD RESULTS	RELOW	ANDINESS	VERIET MATE	-1		
	17.17		HRC T	HRB	DUR A	DUR D	0		
TYPE OF MATERIAL			HEPORT	R EXTRUSION	BIAL ÁSTER D				
SIZE OF TEST SAMPLE			Edward Commence	CASA EPONDA LATA L'ASTO	and the terminal production of the	and District A			
HARDNESS / DUROMETER REA	DIN	G	BORD TOP	314 17 Walt 1 Walt 24					
TIATIBINEOU / BOTTOMETETTE			located in the Q	uality Office	AND ADDRESS OF THE PARTY OF THE PARTY.				
				16 AL MOVU HS					

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

DATE:

QC 18 INSPECTION

INSPECTED BY:

DATE: 14/03/21



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

## **PURCHASE ORDER**

### Purchase Order ID PO23230

Purchase Order Date 3/5/2014 PO Print Date 3/5/2014

Page Number 1 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8 CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

**Contact Name** 

**Ship To Contact** 

Ship To Phone

**Vendor Phone** 

905 669 9444

VENDOR'S TRUCK

Buyer

Chantal Lavoie

**Customer POID** Customer Tax#

10127-2607

**Terms** 

Net 30 CAD

Currency

**FOB** 

FCA - (Free Carrier)

Ship Via: Ship Acct:

Nbr

Req Qty/ Line Reference Req Date/ CD Description/ Mfg ID **Taxable** Vendor Part Number **Line Comments Promise Date Delivery Comments** M6061T6T8.000W.125 6061-T6 RD Tube 8.00 20.00

3/10/2014

Yes 3/10/2014

Unit of Measure

\$292.00

Extended

Price

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/8 OR QQ-A-200/8 OR QQ-A-225/8 OR

X.125W

AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241

Line Total:

\$292.00

M304S20GA

304/316 .040 Sheet

3/10/2014

Yes 3/10/2014

320.00 sf

f

\$2.65

\$14.60

\$849.00

MATERIAL; AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR

ASME SA240

Line Total:

\$849.00

PO Instructions: NO: PEC ST-658228

NO: PEC ST-658371

Note:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO23230

Purchase Order Date 3/5/2014 PO Print Date 3/5/2014

Page Number 2 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

**Contact Name** 

**Vendor Phone** 

905 669 9444

Buyer

Chantal Lavoie

**Customer POID** Customer Tax #

**Ship To Contact** 

Ship To Phone

Currency

10127-2607 Net 30

CAD

Ship Via: Ship Acct: VENDOR'S TRUCK

**FOB** 

FCA - (Free Carrier)

M304S18GA

304/316 .050 Sheet

3/10/2014

192.00

sf

\$3.59

\$690.00

Yes 3/10/2014

MATERIAL; AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240

Line Total:

\$690.00

M6061T6S.090

6061-T6 .090 Sheet

3/10/2014

96.00

\$3.84

\$369.00

Yes 3/10/2014

sf

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209

Line Total:

\$369.00

M6061T6B0.375X01.000

6061T6 BAR .375 x 1.00

3/10/2014

48.00

\$0.92

\$44.16

Yes

3/10/2014

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER OO-A-225/8 OR AMS-OO-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-A/200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221

PO Instructions: NO: PEC ST-658228

NO: PEC ST-658371

Note:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO23230

Purchase Order Date 3/5/2014 PO Print Date 3/5/2014

Page Number 3 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

**Contact Name** 

**Vendor Phone** 

**Ship To Contact** 

Ship To Phone

905 669 9444

VENDOR'S TRUCK

Buyer

Chantal Lavoie

**Customer POID** Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

**FOB** 

FCA - (Free Carrier)

Ship Via: Ship Acct:

Line Total:

\$44.16

M7075T6B0.375X8.000

7075-T6 BAR 0.375" X

8.000"

3/10/2014

\$17.92

\$430.00

Yes

3/10/2014

 $MATERIAL: 7075-T6 \ OR \ T651/T6510/T6511/T62 \ ALUMINUM \ BAR \ PER \ AMS-QQ-A-225/9 \ OR \ AMS \ 4122/4123/4186/4187 \ OR \ PER \ AMS-QQ-A-200/11 \ OR \ AMS \$ CUT FROM PLATE QQ-A-250/12

Line Total:

\$430.00

M7075T6B6.000X0.250

7075-T6 BAR 6.000" X

0.250"

3/10/2014

24.00 24.08

\$11.25

\$270.00

Yes 3/10/2014

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR CUT FROM PLATE QQ-A-250/12

Line Total:

\$270.00

M7075T6B5.000X0.375

7075-T6 BAR 5.000" X

3/10/2014

\$11.42

\$1,096.00

0.375"

Yes

3/10/2014

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-A-200/11 OR CUT FROM PLATE QQ-A-250/12

PO Instructions: NO: PEC ST-658228

NO: PEC ST-658371

Note:

3/5/2014



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO23230

Purchase Order Date 3/5/2014 PO Print Date 3/5/2014

Page Number 4 of 5

Order From:

VC-COP001

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO, ON M5W 5V8

CA

DART AEROSPACE LTD Ship To:

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

**Contact Name** 

**Vendor Phone** 

**Ship To Contact** 

Ship To Phone

905 669 9444

Buyer **Customer POID**  Chantal Lavoie

Customer Tax#

10127-2607

Terms

Net 30

Currency

CAD

Ship Via: **Ship Acct:** 

VENDOR'S TRUCK

**FOB** 

FCA - (Free Carrier)

Line Total:

Kill Fine Votal:

\$1,096.00

M7075T6B1.750X02.250

7075-T6 BAR 1.750" X

3/10/2014

12.00

\$25.42

\$305.00

2.250"

Yes

3/10/2014

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-A-200/11 OR CUT FROM PLATE QQ-A-250/12

71401-45

**PROCUREMENT** QUALITY CLAUSES 3/10/2014

0.00

\$0.00

\$0.00

\$305.00

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification A017 raw material identification (as applicable)

A026certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality document

No 3/10/2014

Line Total:

\$0.00

PO Instructions: NO: PEC ST-658228

NO: PEC ST-658371

Note:



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

### **PURCHASE ORDER**

### Purchase Order ID PO23230

Purchase Order Date 3/5/2014 PO Print Date 3/5/2014

Page Number 5 of 5

Order From:

VC-COP001

Ship To:

DART AEROSPACE LTD

THYSSENKRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"

TORONTO, ON M5W 5V8

CA

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

**Contact Name** 

**Vendor Phone** 

905 669 9444

VENDOR'S TRUCK

Buyer

FOB

Chantal Lavoie

**Customer POID** Customer Tax #

10127-2607

**Ship To Contact** 

Ship To Phone

**Terms** Currency Net 30 CAD

FCA - (Free Carrier)

Ship Via: **Ship Acct:** 

PO Total:

\$4,345.16

PO Instructions: NO: PEC ST-658228

NO: PEC ST-658371

1

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explaination.

Change Nbr:

**Change Date:** 

3/5/2014